



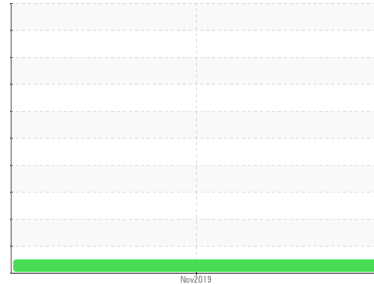
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[170658]**  
 Machine Id  
**CARBONEARDIESEL**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 40 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm. Please specify the component make and model with your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC971597</b>	---	---
Sample Date	Client Info		<b>18 Nov 2019</b>	---	---
Machine Age	hrs	Client Info	<b>71</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>3</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m) >3	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m) >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>0</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 250	<b>183</b>	---	---
Barium	ppm	ASTM D5185(m) 10	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 100	<b>184</b>	---	---
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m) 450	<b>820</b>	---	---
Calcium	ppm	ASTM D5185(m) 3000	<b>1340</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	<b>925</b>	---	---
Zinc	ppm	ASTM D5185(m) 1350	<b>1081</b>	---	---
Sulfur	ppm	ASTM D5185(m) 4250	<b>2751</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

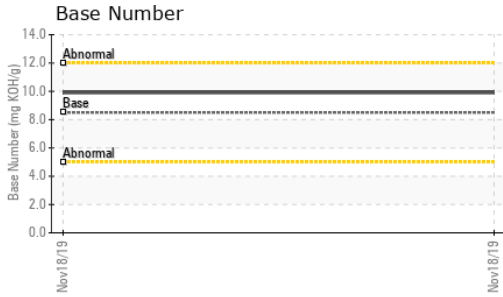
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>6</b>	---	---
Sodium	ppm	ASTM D5185(m) >216	<b>1</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	---	---

## INFRA-RED

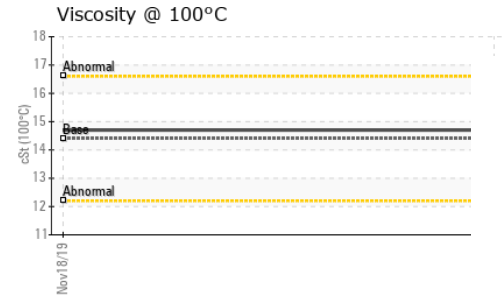
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>6.0</b>	---	---
Sulfation	Abs./1mm	ASTM D7415* >30	<b>22.9</b>	---	---



# OIL ANALYSIS REPORT



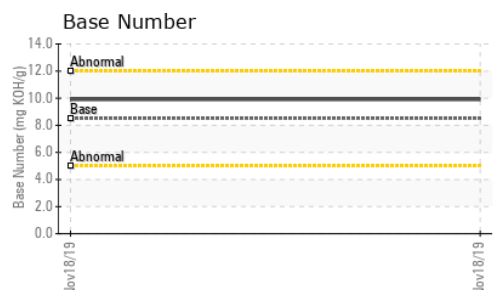
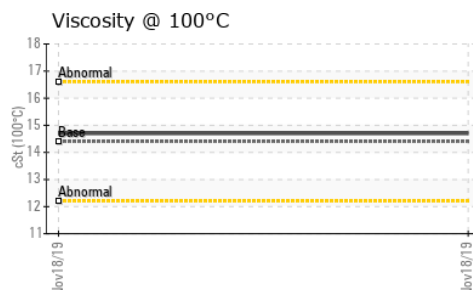
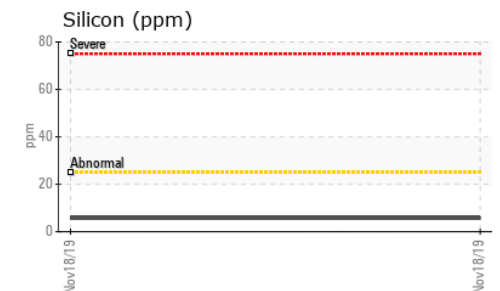
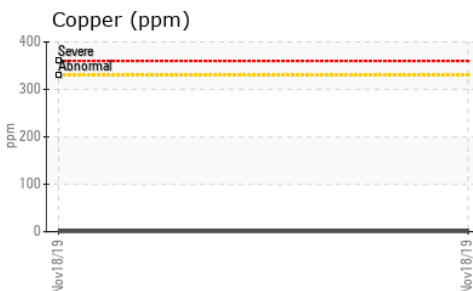
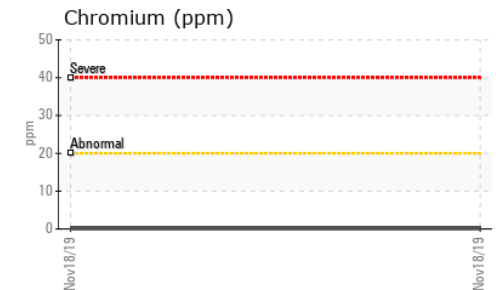
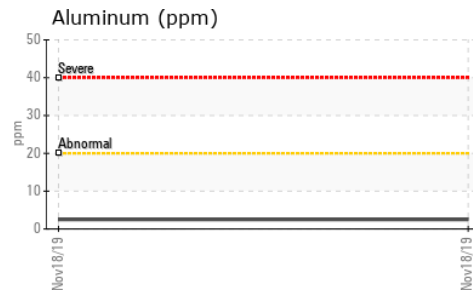
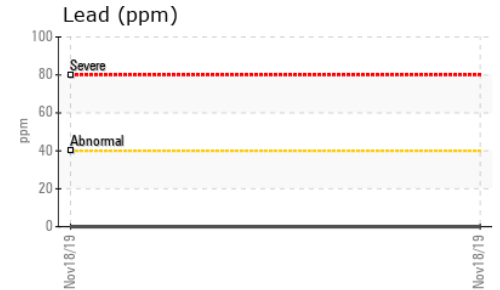
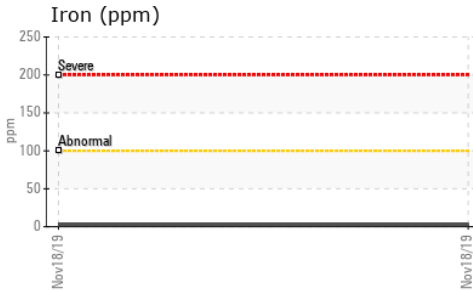
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	8.5	<b>9.91</b>	---	---



VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---
Free Water	scalar	Visual*		<b>NEG</b>	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>14.7</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC971597 **Received** : 14 Jan 2020  
**Lab Number** : **02331588** **Diagnosed** : 15 Jan 2020  
**Unique Number** : 4990894 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2

**NEWFOUNDLAND POWER INC.**  
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 F: (709)737-2926

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.